

LWG Storm Water Basin Reconnaissance Summary of Findings

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Purpose of Recon

- Evaluate the feasibility of sampling in the selected basins
- Identify locations in the basin to collect samples
- Assess equipment and construction requirements

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To be Discussed Today...

- Locations with treatment upstream of sampling location
- Unfeasible locations
- City locations

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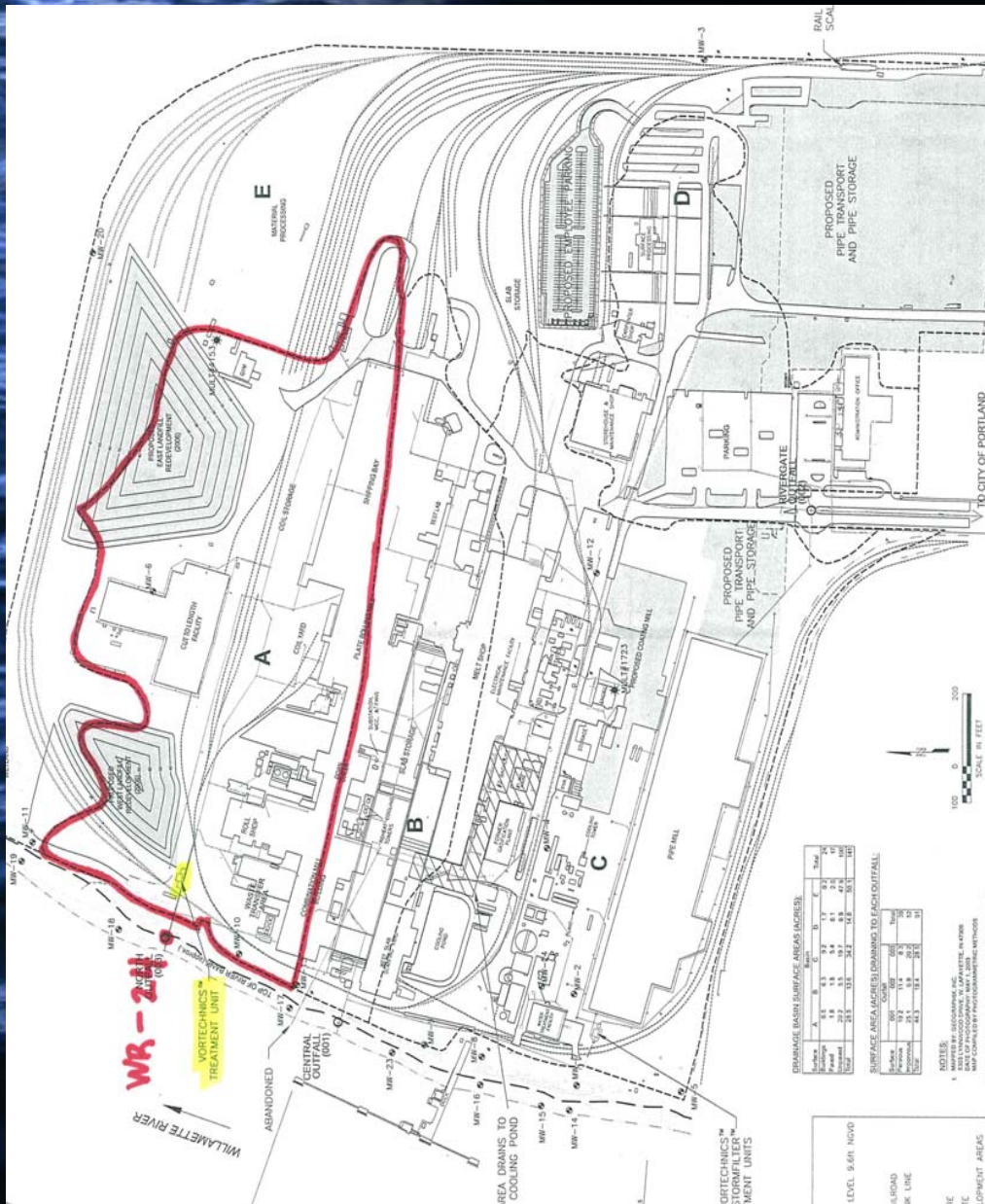
Locations with Treatment Upstream of Sampling Location

- WR-24 Oregon Steel Mills
- WR-107 NWN/Gasco
- WR-66 Siltronic

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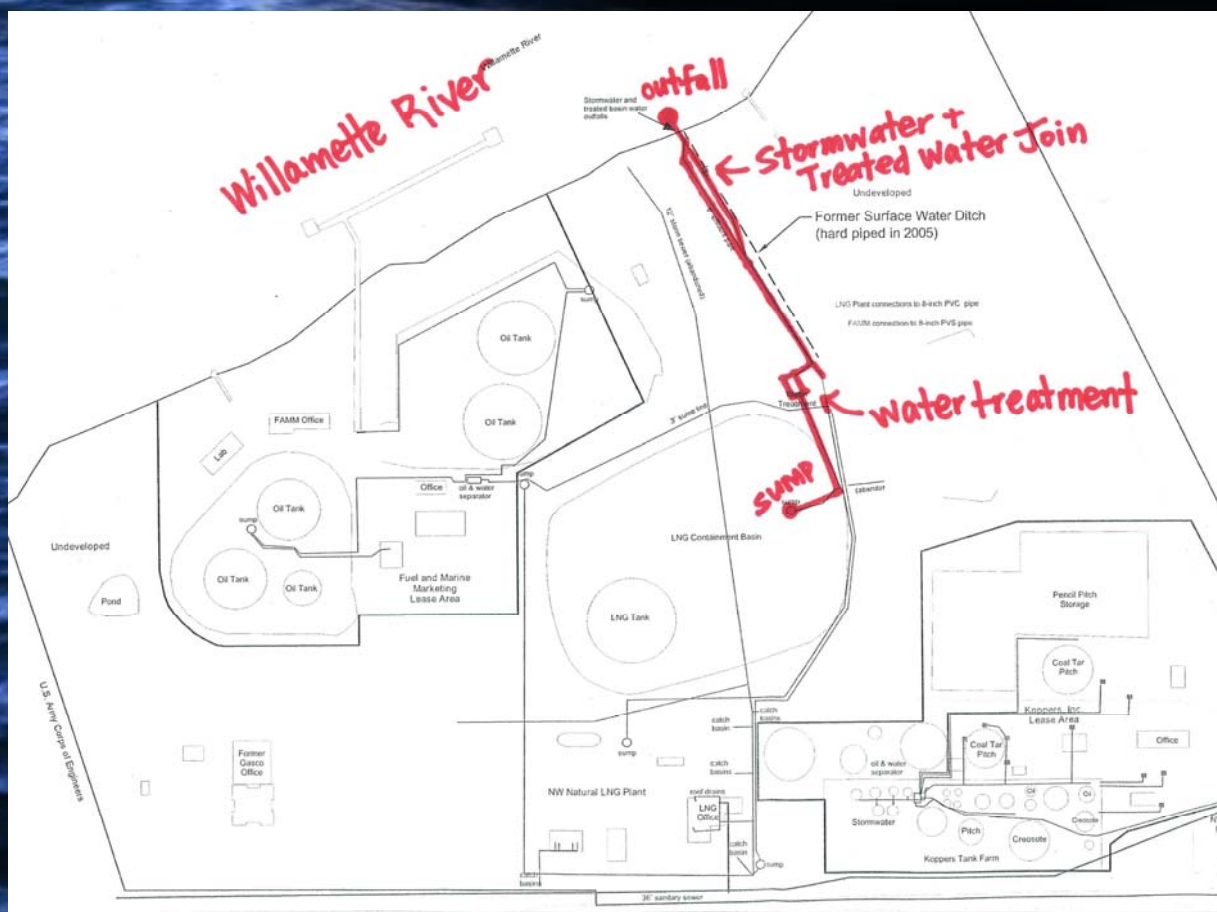
WR-24 Oregon Steel Mills



- “Vortechs” system removes sediment, particles, oil and grease from storm water runoff and groundwater
- All runoff at this location is treated before sampling
- Would a different outfall be a better option?

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WR-107 NWN/Gasco

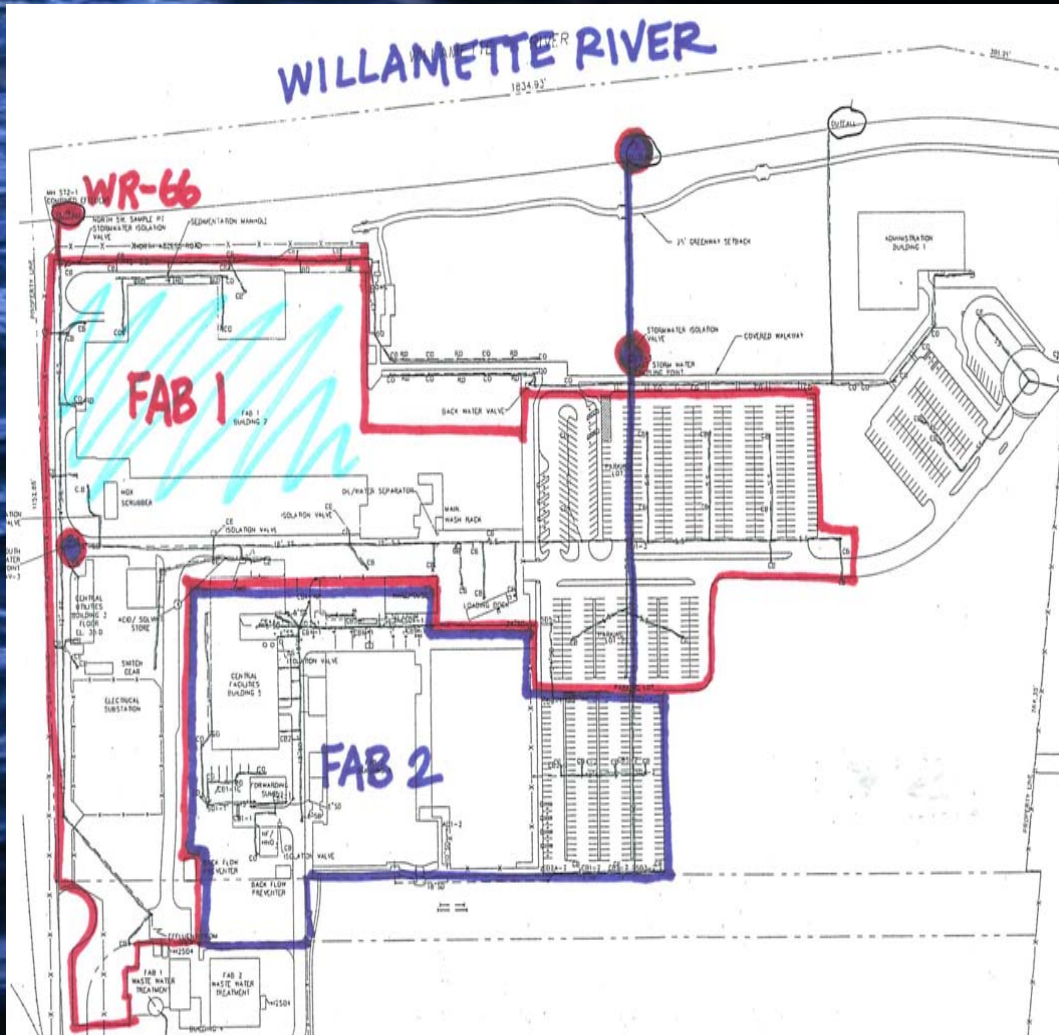


- Carbon filter treats groundwater that mixes with untreated storm water before outfall
- Treated flow rate = 80-100 gpm except in very dry periods

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WR-66 Siltronic



- Wastewater Treatment Plant treats 1 MGD
- Runoff must be sampled upstream of location where storm water and waste water mix.
- Therefore, only part of basin can be sampled. (Blue highlighted area will not be sampled.)
- Could sample FAB 2 outfall, but standing water has caused increased TSS measurements.

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Unfeasible Locations

- WR-6 Rhone-Poulenc
 - Replace with?
- WR-148 Gunderson
 - Replace with WR-147

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WR-6 Rhone-Poulenc

- All storm water onsite is stored in four 64,000 gallon tanks. A minimum of 25% of this storage is always in tanks. (64,000 gallons is more volume than most storms we are measuring)
- All groundwater is treated by a bioreactor.
- Runoff is pumped via auto level control at a constant rate of 100 gpm to submerged outfall in Willamette River.

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WR-148 Gunderson

- WR-148
 - Outfall has been structurally compromised and is scheduled for repair and is located down a steep difficult to access slope.
 - Current land use is primarily unused land with a small parking lot with auto stack building (shipping and receiving of small parts)
- WR-147
 - Catch basin already installed where it will be easy to install the ISCO sampler and sediment traps.
 - Land use is generally the same as WR-148, but more activity. There is more active metal storage in this basin.

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City Locations

- All locations accessed through man-holes upstream of outfalls
- Many manholes found to be flooded/backed up with river water
- Basin sampling locations to discuss:
 - OF 22C
 - OF 22B
 - OF M-1
 - OF M-2
 - OF-22
 - OF-16
 - OF-17
 - OF-19

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City Locations



OF 22-C



- Objective = Characterize open space (Forest Park) runoff
- Obstacle = MH is located on police evidence storage lot. Access is limited to 7am-10am M-Th except with special arrangements and background check.

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OF 22-B



- Objective = Characterize chemical manufacturing runoff
- Sampling MH = AAJ650 (invert elevation = 16.68)

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OF M-1



- Proposed sampling MH = AAJ933 at Freightliner (invert = 16.68)
- AAM107 flooded with river water on 1/23/06 (invert = 10.8)
- AAM104 has been paved over
- AAJ935 often flooded (invert = 14.4)

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OF M-2



- Proposed sampling MH = AAM 179 (invert = 15.9)
- AAM169 often flooded (invert = 13.4)

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OF 16



- Objective = Characterize mixed industrial/highway
- Sampling MH = AMZ120
- City is already monitoring MH AMZ117 and will not be complete until after May

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OF 22



- Obstacle = MH is located in homeland security limited access area. Need security clearance to access. This is doable.

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OF 17

- More than 50% of Basin 17 storm drain network is flooded
- Sampling location to be determined...

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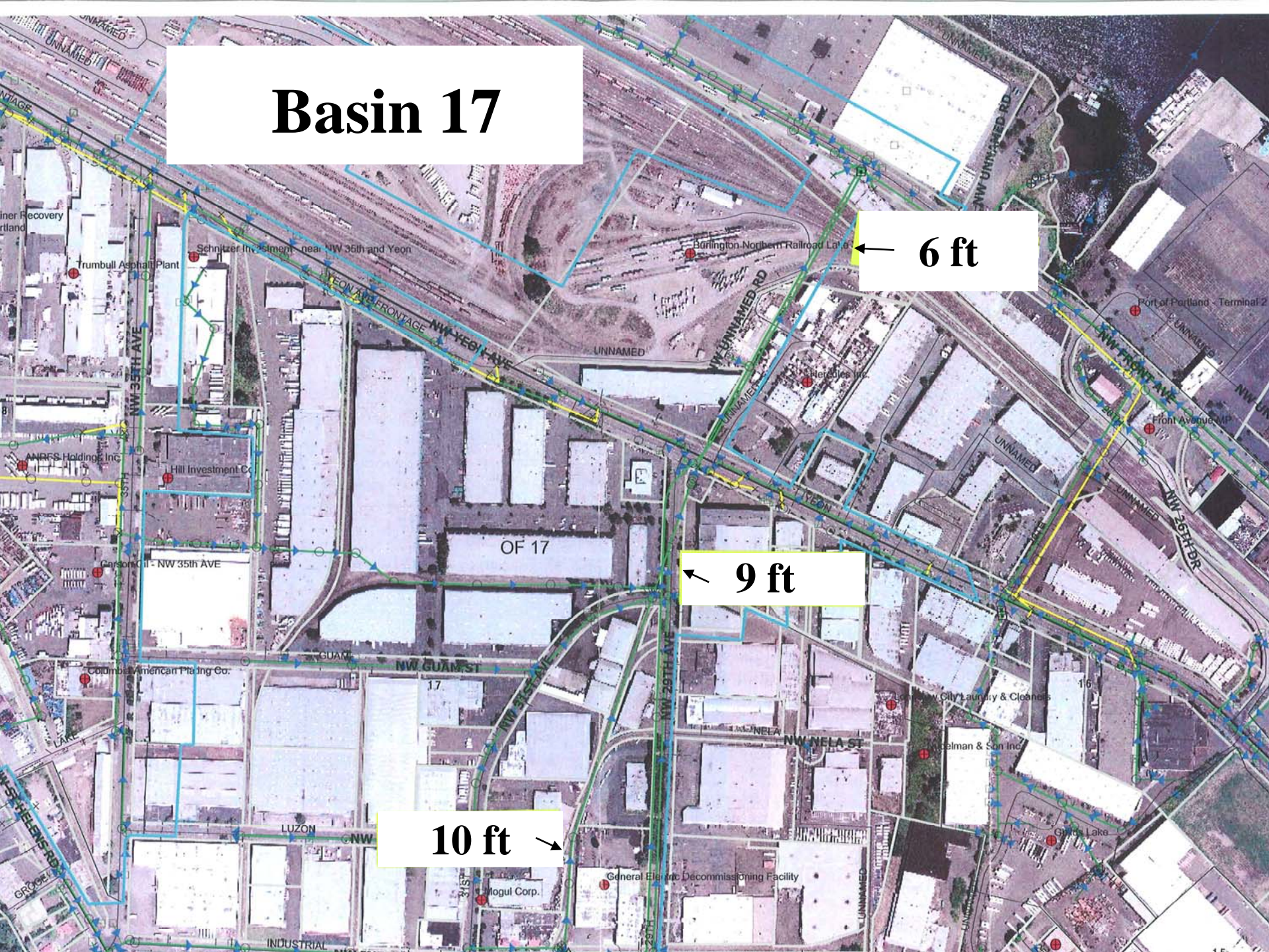
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Basin 17

6 ft

9 ft

10 ft



OF 19



- Sampling MH = AAJ918 (invert elevation = 17.72)
- City is currently monitoring storm water here but will be complete at end of February

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Any questions?

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